

Abstract

Devices and methods are provided for treating a bone structure (such as, e.g., reducing a bone fracture, e.g., a vertebral compression fracture, or stabilizing adjacent bone structure, e.g., vertebrae) is provided. The device comprises rigid or semi-rigid members, each of which comprises a common base and a plurality of ribs that extent along the a longitudinal portion of the common base. The device is configured to be placed in a collapsed state by engaging the pluralities of ribs of the members in an interposed arrangement, and configured to be placed in a deployed state by disengaging the pluralities of ribs. The ribs can be any shape, e.g., flutes, that allows opposing ribs to intermesh with one another. In this manner, the device has a relatively small profile when placed in the collapsed state, so that it can be introduced through small openings within the bone structure, while preserving the shear strength of the members during deployment of the device.